US006120907A

United States Patent [19]

Tahon et al.

[11] Patent Number: 6,120,907

[45] Date of Patent: Sep. 19, 2000

[54] **DATA CARD COMPRISING A LASER RECORDING MEDIUM AND A THIN GLASS LAYER**

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[21] Appl. No.: **09/177,505**

[22] Filed: **Oct. 23, 1998**

[30] **Foreign Application Priority Data**

Oct. 24, 1997	[EP]	European Pat. Off.	97203312
Sep. 9, 1998	[EP]	European Pat. Off. ..	PCT/EP98/05748
Sep. 22, 1998	[EP]	European Pat. Off.	98203173

[51] **Int. Cl.**[7] **B32B 3/00**

[52] **U.S. Cl.** **428/426**; 428/432; 428/433; 428/913; 430/270.12; 430/495.1; 430/945; 369/283; 369/288

[58] **Field of Search** 428/426, 432, 428/433, 688, 689, 913, 64.1, 64.4; 430/270.12, 495.1, 945; 369/283, 288

[56] **References Cited**

FOREIGN PATENT DOCUMENTS

63-074136	4/1988	Japan .
63-074137	4/1988	Japan .

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[57] **ABSTRACT**

According to the present invention a data card is provided which comprises a heat-mode laser recording medium on a support and wherein said laser recorder medium is covered by a thin flexible glass layer. The data card has a higher mechanical strength, an improved shelf-life and offers better security with regard to counterfeiting. The heat-mode laser recording medium is preferably a metal layer of which the optical reflectivity or density can be changed by laser exposure. The glass layer is preferably a borosilicate glass having a thickness less than 850 μm.

10 Claims, No Drawings